

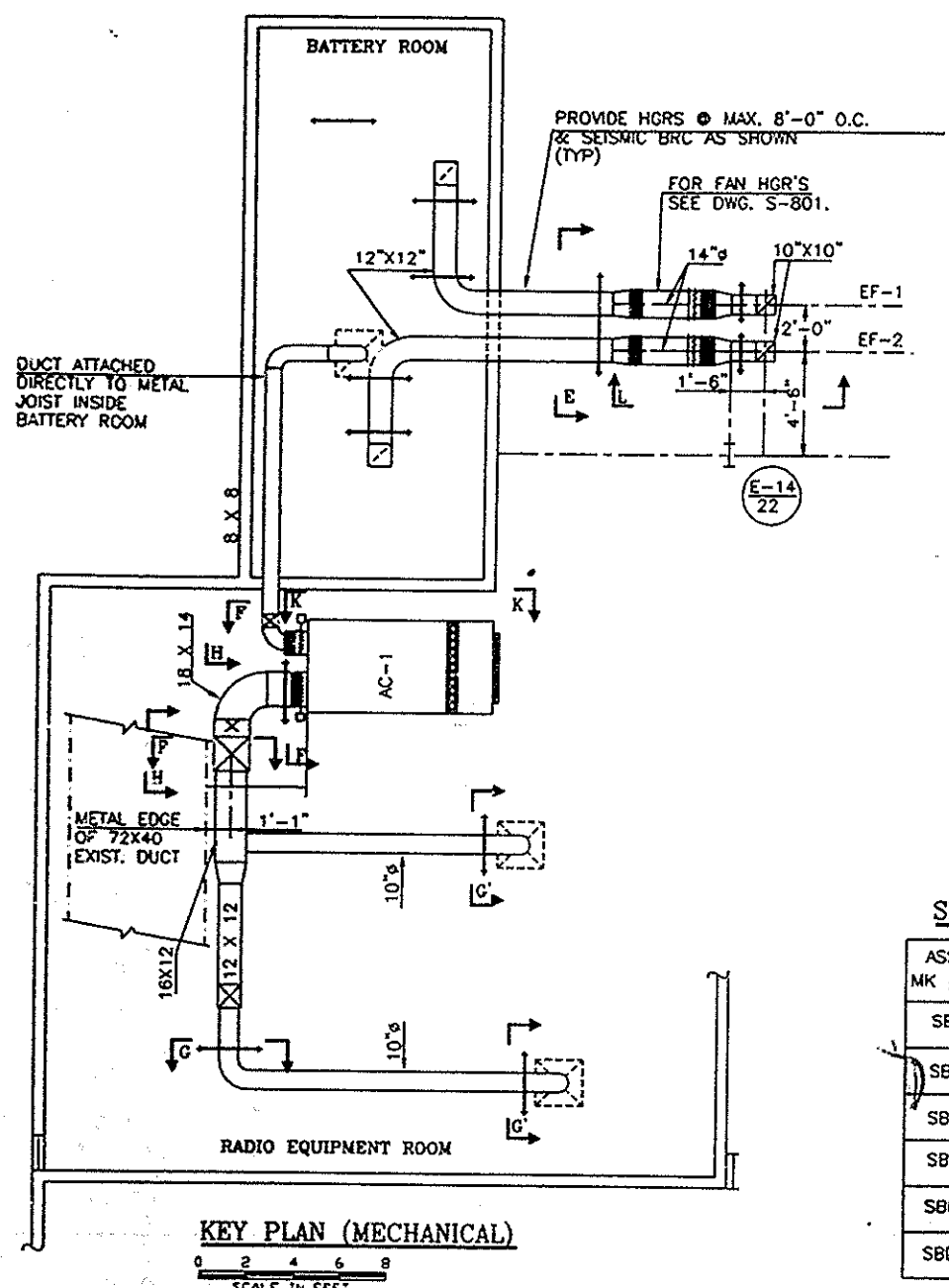
THE PORT AUTHORITY
OF NY & NJ



ORIGINAL SIGNED & SEALED BY
N.Y. P.E. (OR R.A.)

**Ram Communications
Consultants, Inc.**
10 Woodbridge Center Drive
Woodbridge, NJ 07095
(908) 636-6970 fax (908) 636-7260

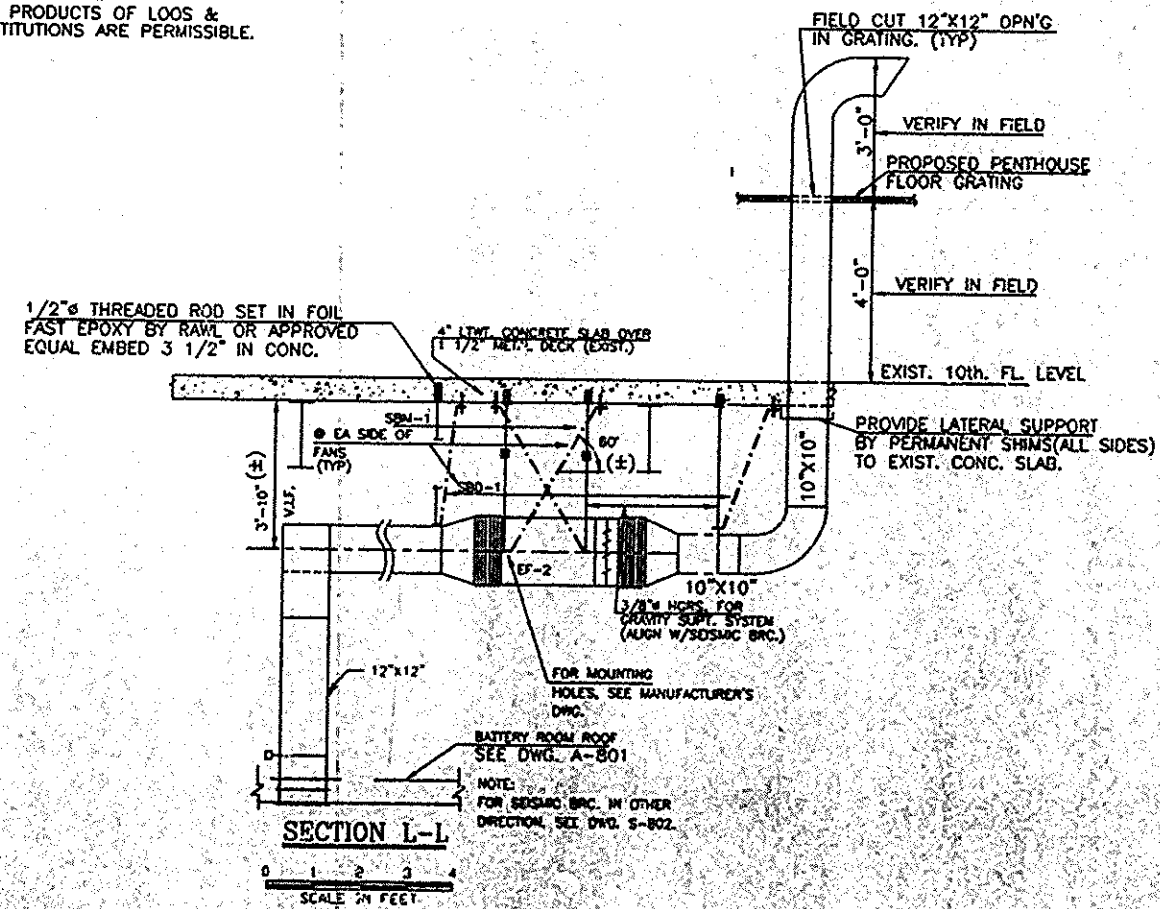
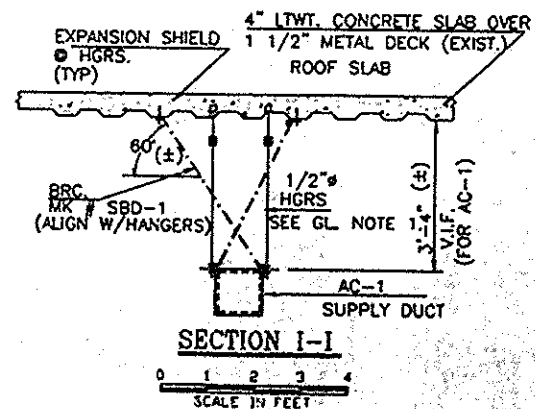
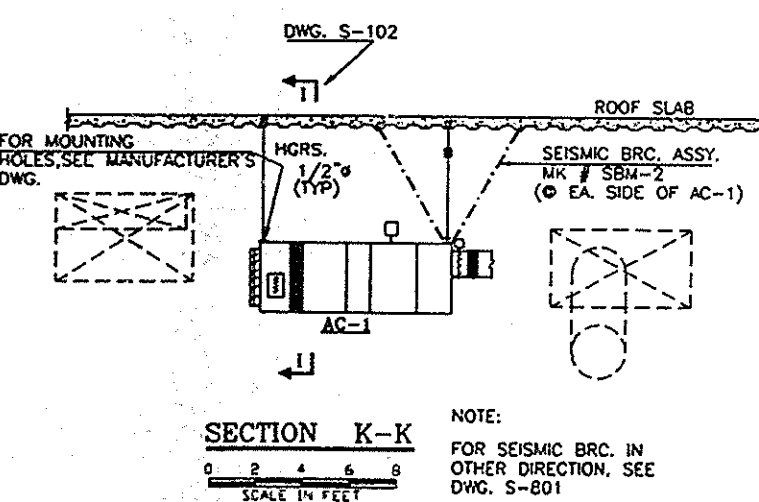
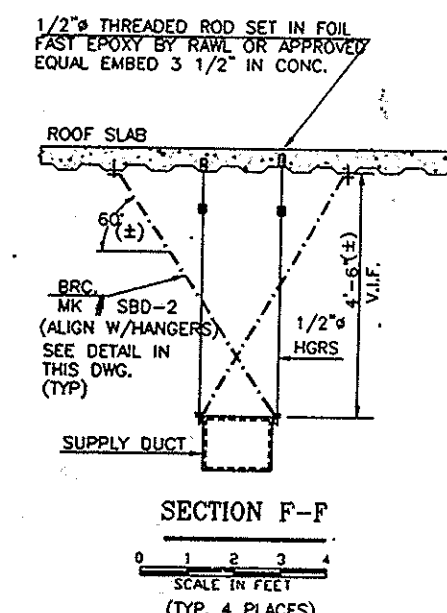
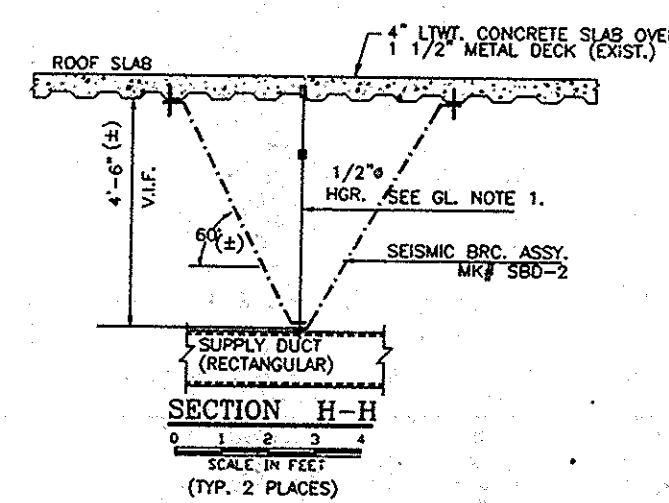
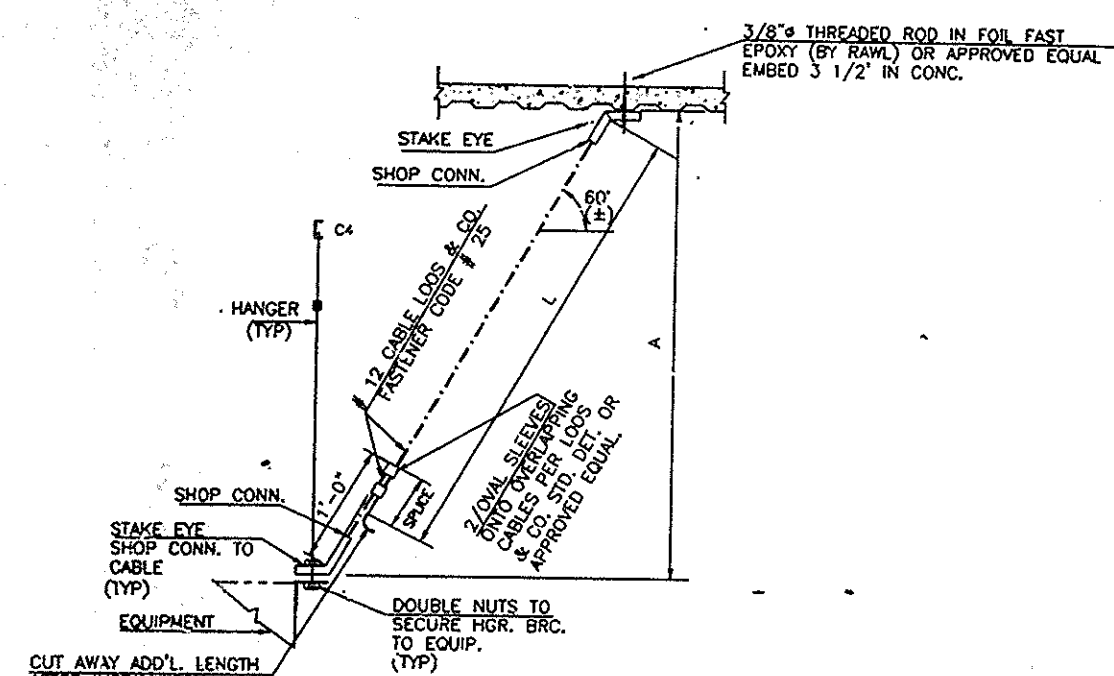
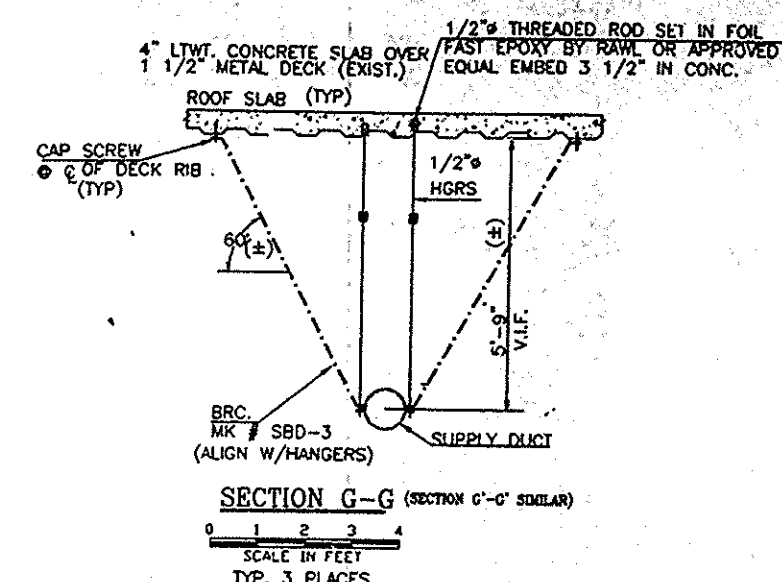
XENON CO.
CONSULTING ENGINEERS -
Suite 27, 129 Park Avenue
Plainfield, New Jersey, 07050
Tel: (908) 755 4445
Fax: (908) 755 4446



SEISMIC BRACING TABLE

ASSEMBLY MK # (200)	LOCATION	DIMENSIONS A L HANGER DIA	LOOS & CO. MODEL #
SBM-1	EXHAUST FAN EF-1 & EF-2	3'-10" 5'-0" 3/8"	A
SBM-2	AIR HANDLER AC-1	5'-0" 6'-3" 1/2"	A
SBM-3	CONDENSER	3'-10" 5'-6" 1/2"	A
SBD-1	EXHAUST DUCT	3'-4" 4'-4" 3/8"	A
SBD-2	SUPPLY DUCT	4'-6" 6'-8" 3/8"	A
SBD-3	SUPPLY DUCT	5'-9" 7'-3" 3/8"	A

- NOTE:**
- ADDITIONAL LENGTH OF CABLE HAS BEEN ALLOWED IN DIM. "L" TO PROVIDE FLEXIBILITY OF INSTALLATION. EXTRA LENGTHS SHALL BE CUT OFF AT SITE AFTER INSTALLATION IS COMPLETE.
 - FOR LOCATIONS OF BRACING, SEE KEY PLAN (MECHANICAL).
 - BRACING MAY BE ROTATED IN PLAN VIEW BY A MAXIMUM ANGLE OF (±) 22.5° TO AVOID INTERFERENCE.
 - ALL CABLE BRC'S ARE BASED ON PRODUCTS OF LOOS & CO., NAPLES, FL. APPROVED SUBSTITUTIONS ARE PERMISSIBLE.



GENERAL NOTES:

- HANGERS & BRACINGS SHOWN ARE FOR SEISMIC SUPPORT AT INDICATED LOCATIONS. ADDITIONAL HANGERS FOR DUCTS (GRAVITY SUPPORT) @ 8'-0" MAX. SPACING, WITHOUT SEISMIC BRS. SHALL BE PROVIDED.
- ALL CABLES & ATTACHMENTS ARE REFERRED TO LOOS & CO'S IDENTIFYING NUMBERS. ENGINEER APPROVED EQUAL MAY BE SUBSTITUTED FOR THOSE SPECIFIED HEREIN.
- FOR FURTHER SEISMIC BRACINGS FOR EQUIPMENT AC-1, EF-1 & 2, SEE DWG. S-801 & S-802.
- FOR LOCATIONS OF SEISMIC BRACING ON ELECTRICAL CABLE TRAYS & PENDENT TYPE LIGHTS, SEE DWG. S-804.
- READ THIS DWG. IN CONJUNCTION WITH DWG'S S-801, 802 & 803.
- DO NOT CUT REBARS WHILE DRILLING CONCRETE.
- ALL CONCRETE ANCHORS SHALL BE PROVIDED WITH NUTS & WASHERS AS REQUIRED.

I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF ONE OF THE CONTRACT DRAWINGS CONSTITUTING A PART OF CONTRACT NO. WTC-945-071 IN THE FORM IN WHICH SAID DRAWINGS EXISTED AT THE TIME THE SAID CONTRACT WAS EXECUTED BY THE PARTIES.

DATE 4/16/98 *Sullivan A. Ashken*
DATE 4/16/98 *PK*
ENGINEER OF DESIGN

The World Trade Center

**STANDBY POWER
5 WORLD TRADE CENTER**

COMMUNICATIONS

**SEISMIC BRACING
FOR MECHANICAL EQUIPMENT
& DUCTS**

This drawing subject to conditions in contract. All dimensions, sizes, designs and materials herein are reserved to Port Authority and not be used without its written consent.

AS	SC	AS
Designed by	Drawn by	Checked by
Date	Scale AS NOTED	
Contract Number	Drawing Number	
WTC-945-071	S-803	